WEST Search History

Hide Items Restore Clear Cancel

DATE: Friday, September 14, 2007

Hide? Set Name Query						
DB=PGPB, USPT; PLUR=YES; OP=ADJ						
Γ	L15	(dextran near3 (phosphorylat\$ or phosphate)).clm.	58			
Г	L14	(dextran near3 (phosphorylat\$ or phosphate)).ab.	2			
Γ	L13	(dextran near3 (phosphorylat\$ or phosphate))	11926			
Γ	L12	L11 and (dextran near3 (phosphorylat\$ or phosphate))	0			
Γ	L11	Meiji.as.	539			
Γ	L10	L7 and (dextran near3 phosph\$)	1			
	L9	L7 and (dextran near3 phosphor\$)	1			
Γ	L8	L7 and dextran	11			
Γ :	L7	Kitazawa.in.	707			
	L6	L4 and dextran	1			
	L5	L4 and dextran.ab.	1			
Γ.,	L4	(Saito Tadao).in.	97			
Γ	L3	Saito.in.	16086			

END OF SEARCH HISTORY

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FILE 'REGISTRY' ENTERED AT 17:21:34 ON 14 SEP 2007
                EXP DEXTRAN PHOS/CN
L17
              1 S E2
     FILE 'CAPLUS' ENTERED AT 17:22:11 ON 14 SEP 2007
              5 S L17
L18
     FILE 'STNGUIDE' ENTERED AT 17:22:36 ON 14 SEP 2007
     FILE 'HCAPLUS' ENTERED AT 17:23:59 ON 14 SEP 2007
L19
            271 S ((PHOSPHORYL? OR PHOSPHATE) (3A) DEXTRAN)
              0 S FORMALDEHYDR
L20
         868832 S IMMUNO?
L21
L22
              0 S L19 AND L20
L23
             25 S L19 AND L21
L24
              0 S L22 AND (PY<2003 OR AY<2003 OR PRY<2003)
L25
             18 S L23 AND (AY<2003 OR PY<2003 OR PRY<2003)
     FILE 'STNGUIDE' ENTERED AT 17:24:10 ON 14 SEP 2007
     FILE 'HCAPLUS' ENTERED AT 17:24:41 ON 14 SEP 2007
         149140 S FORMALDEHYDE
L26
L27
              0 S L19 AND L26
L28
              0 S L27 AND (AY<2003 OR PY<2003 OR PRY<2003)
     FILE 'STNGUIDE' ENTERED AT 17:24:46 ON 14 SEP 2007
     FILE 'HCAPLUS' ENTERED AT 17:25:29 ON 14 SEP 2007
L29
         232153 S PHOSPHORYL?
         62385 S POLYSACCHARIDE
L30
              3 S L29 AND L30 AND L26
L31
              3 S L31 AND (AY<2003 OR PY<2003 OR PRY<2003)
L32
     FILE 'HCAPLUS' ENTERED AT 17:52:13 ON 14 SEP 2007
          70529 S (POLYPHOSPHATE OR POLYPHOSPHORIC OR PYROPHOSPHATE OR PYROPHOS
L33
         171538 S FORMAMIDE OR FORMALDEHYDE
L34
L35
             10 S L19 AND L33
              4 S L19 AND L34
L36
              2 S L19 AND L33 AND L34
L37
L38
              8 S L35 AND (PY<2003 OR AY<2003 OR PRY<2003)
             3 S L36 AND (PY<2003 OR AY<2003 OR PRY<2003)
L39
```

1 S L37 AND (PY<2003 OR AY<2003 OR PRY<2003)

L40

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * * * * SESSION RESUMED IN FILE 'STNGUIDE' AT 17:21:13 ON 14 SEP 2007 FILE 'STNGUIDE' ENTERED AT 17:21:13 ON 14 SEP 2007 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)s

COST IN U.S. DOLLARS FULL ESTIMATED COST	SINCE FILE ENTRY 0.06	TOTAL SESSION 126.21
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) CA SUBSCRIBER PRICE	SINCE FILE ENTRY 0.00	TOTAL SESSION -17.94
=> file registry COST IN U.S. DOLLARS FULL ESTIMATED COST	SINCE FILE ENTRY 0.12	TOTAL SESSION 126.27
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) CA SUBSCRIBER PRICE	SINCE FILE ENTRY 0.00	TOTAL SESSION -17.94

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 SEP 2007 HIGHEST RN 947061-18-9 DICTIONARY FILE UPDATES: 13 SEP 2007 HIGHEST RN 947061-18-9

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> exp	dextran	phos/cn	
E1	1	DEXTRAN	PALMITATE/CN
E2	1	DEXTRAN	PALMITATE PHOSPHATE/CN
E3		> DEXTRAN	PHOS/CN
E4	1	DEXTRAN	PL 1S/CN
E5	1	DEXTRAN	POLYALDEHYDE/CN
E6	1	DEXTRAN	POLYSULFATE/CN
E7	1	DEXTRAN	PT 25/CN
E8	1		PVD/CN
E9	1	DEXTRAN	RMI/CN
E10	1	DEXTRAN	SODIUM SULFATE/CN
E11	1	DEXTRAN	SODIUM SULFATE-A-POLY(L-LYSINE) COMPLEX/CN
E12	1	DEXTRAN	SODIUM SULFATE-DL-LACTIDE GRAFT COPOLYMER/CN
=> S E2	2		

=> S E2 L17 => file caplus COST IN U.S. DOLLARS

ENTRY SESSION 5.40

SINCE FILE

FULL ESTIMATED COST

131.67

TOTAL

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE

0.00 -17.94

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FILE COVERS 1907 - 14 Sep 2007 VOL 147 ISS 13 FILE LAST UPDATED: 13 Sep 2007 (20070913/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

The stabilization and release of hirudin from liposomes or

lipid-assemblies coated with hydrophobically modified dextran

http://www.cas.org/infopolicy.html

=> s 117

TT

L18 5 L17

=> d 118 1-5 ti abs bib

L18 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

Hirudin is a 65-amino acid peptide and the most potent and specific known AB inhibitor of thrombin (Ki = 0.2 pM). The short elimination half-life of hirudin from the body (1 h) necessitates the use of a sustained and controlled delivery system. A proliposome method was used to entrap hirudin in liposomes coated with palmitoyl dextran-coated liposomes and lipid-assemblies. In vitro release studies of hirudin were performed using the lipid systems enclosed in dialysis membranes or deposited in the pores of a vascular graft. The activity of hirudin and released hirudin was measured using a thrombin chromogenic substrate assay. Entrapment efficiencies of hirudin in lipid-assemblies approached 100%, however, the release of hirudin from these systems was rapid with 90% released in 17 h. Entrapment efficiencies of hirudin in coated-liposomes ranged from 5% to 55% and were dependent on several variables. Palmitoyl dextran-coated liposomes showed a burst of 30% hirudin released in 5 h with an addnl. 10% to 35% released over the next 600 h. In all samples, 30-40% of the hirudin remained associated with the lipid-systems even after 600 h. released hirudin retained only 33% of its ability to inhibit thrombin when

released from uncoated liposomes. However, hirudin retained 95% of its thrombin inhibitory activity when released from palmitoyl dextran-coated liposomes. Coated liposomes were found to stabilize hirudin and result in

greater retention of hirudin's ability to inhibit thrombin's enzymic

activity, although the mechanism is not yet understood.

```
AN 2000:464384 CAPLUS <<LOGINID::20070914>>
```

- DN 134:76236
- TI The stabilization and release of hirudin from liposomes or lipid-assemblies coated with hydrophobically modified dextran
- AU Mumper, Russell J.; Hoffman, Allan S.
- CS Center for Pharmaceutical Science & Technology, College of Pharmacy, University of Kentucky, Lexington, KY, 40536-0082, USA
- SO AAPS PharmSciTech (2000), 1(1), No pp. given CODEN: AAPHFZ; ISSN: 1522-1059
 - URL: http://www.pharmscitech.com/volumelissue1/103/manuscript.htm
- PB American Association of Pharmaceutical Scientists
- DT Journal; (online computer file)
- LA English
- RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L18 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Gelation of Limulus lysate by synthetic dextran derivatives
- AB A simple model of endotoxin, palmitoyldextran phosphate [63026-23-3], was prepared by modification of dextran by palmitoylation and phosphorylation and was used to evaluate the bacterial endotoxin-specific Limulus test. A variety of polysaccharide derivs., such as palmitoyldextran phosphate, palmitoyldextran [63026-27-7], and dextran phosphate [9041-77-4], gave a pos. Limulus test and showed pyrogenic activity, except for low mol. dextran derivs. On the other hand, polysaccharides, such as dextran, starch [9005-25-8] (soluble), chitosan [9012-76-4], xylan [9014-63-5], and lentinan [37339-90-5], were neg. in these assays. The gelation reaction of Limulus lysate by modified dextran derivs. may depend on the mol. weight or modification of polysaccharides by palmitoylation and/or phosphorylation to a great extent.
- AN 1978:70161 CAPLUS <<LOGINID::20070914>>
- DN 88:70161
- TI Gelation of Limulus lysate by synthetic dextran derivatives
- AU Suzuki, Masuko; Mikami, Takeshi; Matsumoto, Tatsuji; Suzuki, Shigeo
- CS Tohoku Coll. Pharm., Sendai, Japan
- SO Microbiology and Immunology (1977), 21(8), 419-25 CODEN: MIIMDV; ISSN: 0385-5600
- DT Journal
- LA English
- L18 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Dextran derivatives in single and combination chemotherapy against transplantable mouse ascites and solid tumors
- Dextran was modified by palmitoylation and/or phosphorylation to yield 3 derivs.:palmitoyldextran phosphate [63026-23-3] dextran phosphate [9041-77-4], and palmitoyldextran [63026-27-7]. Of these compds., only palmitoyldextran phosphate showed growth-inhibitory activity against Ehrlich solid tumor in mice. In combination therapy with mitomycin C [50-07-7], bleomycin [11056-06-7], cyclophosphamide [50-18-0], and 5-fluorouracil [51-21-8], palmitoyldextran phosphate manifested strong synergistic effects against both Sarcoma 180 ascites and L1210 leukemic tumors. The compound was not directly cytocidal against Sarcoma 180 ascites tumor, but it appeared to act via activation of peritoneal macrophage. The antitumor activity of palmitoyldextran phosphate apparently is mainly due to immunol. host-mediated mechanisms.
- AN 1977:593864 CAPLUS <<LOGINID::20070914>>
- DN 87:193864
- TI Dextran derivatives in single and combination chemotherapy against transplantable mouse ascites and solid tumors
- AU Suzuki, Masuko; Mikami, Takeshi; Kadowaki, Minoru; Matsumoto, Tatsuji; Suzuki, Shigeo
- CS Dep. Microbiol., Tohoku Coll. Pharm., Sendai, Japan
- SO Cancer Research (1977), 37(9), 3448-54

CODEN: CNREA8; ISSN: 0008-5472

DT Journal LΑ English

ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN L18

Esters of polysaccharides with phosphoric acid and palmitric acid ΤI

AB Water-soluble polysaccharides are treated with palmitic acid halide and phosphorylation reagents in the presence of tertiary amine in formamide solvent to obtain polysaccharide phosphate palmitates. The products are effective in controlling tumor growth. Thus, 1 part dextran (mol. weight 40,000) was dissolved in 100 parts formamide and to this were added Bu3N 20 and palmitoyl chloride 5.0 parts. The mixture was heated at 70° for 2 h and to this was added 5 parts polyphosphate. The mixture was allowed to stand at room temperature for 24 h and to this was added 400 parts MeOH. The precipitate was collected, washed with MeOH, and suspended in water. The pH of the suspension was adjusted to 10 with 10% NaOH and centrifuged. The supernatant was treated with 400 parts MeOH. The precipitate was

collected,

washed with MeOH, and dried in vacuo to obtain a water-soluble fraction. water-soluble fraction (1 part) was dissolved in water and worked up to yield an dextran phosphate palmitate [63026-23-3]. The compound contained sugars 46.3, P 2.3, and palmitic acid 47.8%.

ΑN

DN 87:29017

TI Esters of polysaccharides with phosphoric acid and palmitric acid

Suzuki, Shigeo; Suzuki, Masuko; Mikami, Takeshi IN

PA Kowa Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 4 pp. SO

CODEN: JKXXAF

DTPatent

LΑ Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 52028583	A	19770303	JP 1975-104626	19750829
	JP 57056921	В	19821202		
PRAI	JP 1975-104626	A	19750829		

- L18 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
- Preparation and antitumor activity of O-palmitoyldextran phosphates, ΤI O-palmitoyldextrans, and dextran phosphate
- Three O-palmitoyldextran phosphates (PalDP) were prepared by esterification AB of dextran with palmitoyl chloride and polyphosphoric acid. One of the H2O-insol. PalDP showed 82% growth regression against sarcoma 183 ascites-tumor in mice when administered at 1 mg/kg/day for 5 days. H2O-soluble PalDP showed 17% growth regression at the same dosage when administered alone and 83% when combined with mitomycin C. O-palmitoyldextrans and dextran phosphates were inactive in the inhibition of this ascites tumor. Thus, the existence of both fatty acid and phosphate groups is necessary to manifest antitumor activity in polysaccharides.
- AN
- DN
- Preparation and antitumor activity of O-palmitoyldextran phosphates, TI O-palmitoyldextrans, and dextran phosphate
- AU Suzuki, Masuko; Mikami, Takeshi; Matsumoto, Tatsuji; Suzuki, Shigeo
- CS Dep. Microbiol., Tohoku Coll. Pharm., Sendai, Japan
- Carbohydrate Research (1977), 53(2), 223-9 SO CODEN: CRBRAT; ISSN: 0008-6215
- DT Journal
- LΑ English

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 14.62 146.29

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE TOTAL
ENTRY SESSION
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LAST RELOADED: Sep 7, 2007 (20070907/UP).

=> file hcaplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.12 146.41

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -21.84

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FILE COVERS 1907 - 14 Sep 2007 VOL 147 ISS 13 FILE LAST UPDATED: 13 Sep 2007 (20070913/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s ((phosphoryl? or phosphate)(3a)dextran)

232153 PHOSPHORYL? 578470 PHOSPHATE 37537 DEXTRAN

L19 271 ((PHOSPHORYL? OR PHOSPHATE)(3A)DEXTRAN)

=> s formaldehydr

L20 0 FORMALDEHYDR

=> s immuno?

L21 868832 IMMUNO?

=> s 119 and 120

=> s 119 and 121

25 L19 AND L21 1.23

=> s 122 and (PY<2003 or AY<2003 or PRY<2003)

22889908 PY<2003 4461769 AY<2003 3940427 PRY<2003

0 L22 AND (PY<2003 OR AY<2003 OR PRY<2003) L24

=> s 123 and (AY<2003 or PY<2003 or PRY<2003)

4461769 AY<2003 22889908 PY<2003 3940427 PRY<2003

L25 18 L23 AND (AY<2003 OR PY<2003 OR PRY<2003)

=> file stnguide

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 2.60 149.01 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION 0.00

-21.84

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=> file hcaplus

CA SUBSCRIBER PRICE

COST IN U.S. DOLLARS SINCE FILE TOTAL SESSION ENTRY FULL ESTIMATED COST 0.06 149.07 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -21.84

FILE 'HCAPLUS' ENTERED AT 17:24:41 ON 14 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE LAST UPDATED: 13 Sep 2007 (20070913/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s formaldehyde

L26 149140 FORMALDEHYDE

=> s 119 and 126

L27 0 L19 AND L26

=> s 127 and (AY<2003 or PY<2003 or PRY<2003)

4461769 AY<2003 22889908 PY<2003 3940427 PRY<2003

L28 0 L27 AND (AY<2003 OR PY<2003 OR PRY<2003)

=> file stnquide

COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE

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=> file hcaplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.06 151.73 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION -21.84 CA SUBSCRIBER PRICE 0.00

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FILE COVERS 1907 - 14 Sep 2007 VOL 147 ISS 13 FILE LAST UPDATED: 13 Sep 2007 (20070913/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s phosphoryl?

L29 232153 PHOSPHORYL?

=> s polysaccharide

L30 62385 POLYSACCHARIDE

=> s 129 and 130 and 126

L31 3 L29 AND L30 AND L26

=> s 131 and (AY<2003 or PY<2003 or PRY<2003)

4461769 AY<2003 22889908 PY<2003 3940427 PRY<2003

L32 3 L31 AND (AY<2003 OR PY<2003 OR PRY<2003)

=> file stnquide

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 2.60 154.33 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -21.84

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Sep 7, 2007 (20070907/UP).

=> d 132 1-3 ti abs bib
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

- L32 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Analysis of the chromosome sequence of the legume symbiont Sinorhizobium meliloti strain 1021
- AB Sinorhizobium meliloti is an α -proteobacterium that forms agronomically important N2-fixing root nodules in legumes. We report here the complete sequence of the largest constituent of its genome, a 62.7% GC-rich 3654,135-bp circular chromosome. Annotation allowed assignment of a function to 59% of the 3341 predicted protein-coding ORFs, the rest exhibiting partial, weak, or no similarity with any known sequence. Unexpectedly, the level of reiteration within this replicon is low, with only two genes duplicated with more than 90% nucleotide sequence identity, transposon elements accounting for 2.2% of the sequence, and a few hundred short repeated palindromic motifs (RIME1, RIME2, and C) widespread over the chromosome. Three regions with a significantly lower GC content are most likely of external origin. Detailed annotation revealed that this

replicon contains all housekeeping genes except two essential genes that are located on pSymB. Amino acid/peptide transport and degradation and sugar metabolism appear as two major features of the S. meliloti chromosome. The presence in this replicon of a large number of nucleotide cyclases with a peculiar structure, as well as of genes homologous to virulence determinants of animal and plant pathogens, opens perspectives in the study of this bacterium both as a free-living soil microorganism and as a plant symbiont.

- AN 2001:634531 HCAPLUS <<LOGINID::20070914>>
- DN 136:258038
- TI Analysis of the chromosome sequence of the legume symbiont Sinorhizobium meliloti strain 1021
- AU Capela, Delphine; Barloy-Hubler, Frederique; Gouzy, Jerome; Bothe, Gordana; Ampe, Frederic; Batut, Jacques; Boistard, Pierre; Becker, Anke; Boutry, Marc; Cadieu, Edouard; Dreano, Stephane; Gloux, Stephanie; Godrie, Therese; Goffeau, Andre; Kahn, Daniel; Kiss, Erno; Lelaure, Valerie; Masuy, David; Pohl, Thomas; Portetelle, Daniel; Puhler, Alfred; Purnelle, Benedicte; Ramsperger, Ulf; Renard, Clotilde; Thebault, Patricia; Vandenbol, Micheline; Weidner, Stefan; Galibert, Francis
- CS Laboratoire de Biologie Moleculaire des Relations Plantes-Microorganismes, Unite Mixte de Recherche (UMR) 215 Centre National de la Recherche Scientifique (CNRS), Institut National de la Recherche Agronomique, Chemin, Tolosan, F-31326, Fr.
- SO Proceedings of the National Academy of Sciences of the United States of America (2001), 98(17), 9877-9882
 CODEN: PNASA6; ISSN: 0027-8424
- PB National Academy of Sciences
- DT Journal
- LA English
- RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L32 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Methylobacillus: a new genus of obligately methylotrophic bacteria
- A new genus and species of obligately methylotrophic bacteria are AB described. These bacteria are nonmotile, gram-neg. rods occurring singly and in pairs. Only methanol and methylamine can support growth. Formaldehyde fixation occurs mainly via the 3-hexulose phosphate pathway, and cell exts. contain a glutathione-independent, nicotinamide adenine dinucleotide-linked formaldehyde dehydrogenase. The DNA base composition is 54.1 mol% guanine plus cytosine. N-limited cells accumulate >5% of their dry weight as a glycogen-like reserve material. This polysaccharide is a homoglucan which is similar to glycogen in its iodine-staining properties and its degree of degradation by phosphorylase a. Some of the glucose mols. are α -1,4 linked, and the presence of other types of bonds in the glucan is implied. The name of the type species is M. glycogenes, and the type strain is T-11(ATCC 29475).
- AN 1977:514359 HCAPLUS <<LOGINID::20070914>>
- DN 87:114359
- TI Methylobacillus: a new genus of obligately methylotrophic bacteria
- AU Yordy, Jerry R.; Weaver, Terry L.
- CS Dep. Microbiol., Cornell Univ., Ithaca, NY, USA
- SO International Journal of Systematic Bacteriology (1977), 27(3), 247-55
 - CODEN: IJSBA8; ISSN: 0020-7713
- DT Journal
- LA English
- L32 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Phosphorylated glycans produced from nonreducing mono- and oligosaccharides by the action of phosphorus pentoxide in dimethyl sulfoxide, and their interactions with concanavalin A
- AB The action of P2O5 in Me2SO on methyl α -D-glucopyranoside, sucrose,

and trehalose afforded nondializable, phosphorylated glycans in .apprx.6-34% yields. Polysucrose had a mol. weight of .apprx. 9,500. The synthetic glycans consisted of carbohydrate (46-59%) and P (11:4-13.1%) and showed reducing sugar values (5.0.apprx.30.8%). Alkaline hydrolysis of polysucrose was accompanied with a depolymn. and afforded sugar phosphates and oligosaccharides. The periodate oxidation gave formic acid (0.15-0.34 mole) and formaldehyde (0.07-0.17 mole/monosaccharide residue). The methylation study indicated their variously branched structures. 2,3,4,6-Tetra-O-methyl-D-glucose was found in only 0.7-3.2% yields; this is in agreement with their weak precipitation reactions with concanavalin A.

Ιt

- is considered that the glycans are produced from nonreducing mono- and oligosaccharides by dehydration, transglycosidation, and esterification with phosphate.
- AN 1976:1525 HCAPLUS <<LOGINID::20070914>>
- DN 84:1525
- TI Phosphorylated glycans produced from nonreducing mono- and oligosaccharides by the action of phosphorus pentoxide in dimethyl sulfoxide, and their interactions with concanavalin A
- AU Hirano, Shigehiro; Nishio, Tomikazu; Ito, Tatsuro
- CS Dep. Agric. Biochem., Tottori Univ., Tottori, Japan
- SO Agricultural and Biological Chemistry (1975), 39(10), 1963-7 CODEN: ABCHA6; ISSN: 0002-1369
- DT Journal
- LA English

=> d 123 1-25 ti

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y) /N:y

- L23 ANSWER 1 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Porous calcium phosphate bone material
- L23 ANSWER 2 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Inositol phosphate derivatives and method of detecting inositol-1-phosphate
- L23 ANSWER 3 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Compositions and methods for treating cancer
- L23 ANSWER 4 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Powder injection of total alkaloid of Fibranrea recisa
- L23 ANSWER 5 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Powder injection of total glycoside of Paeonia root
- L23 ANSWER 6 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Dextran from Leuconostoc mesenteroides augments immunostimulatory effects by the introduction of phosphate groups
- L23 ANSWER 7 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Phosphorylated dextran as immunopotentiator
- L23 ANSWER 8 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Dextran-binding human plasma antibody recognizes bacterial and yeast antigens and is inhibited by glucose concentrations reached in diabetic sera
- L23 ANSWER 9 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Phosphorylated sugar alcohols from basidiomycetes and dextran as antiviral drugs and health foods

- L23 ANSWER 10 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Intestinal infection with Giardia spp. reduces epithelial barrier function in a myosin light chain kinase-dependent fashion
- L23 ANSWER 11 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Phosphorus-containing polymers for optical signal transducers
- L23 ANSWER 12 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Method for the preparation of microspheres which contain colloidal systems
- L23 ANSWER 13 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Apparatus and method to encapsulate, kill and remove malignancies, including selectively increasing absorption of x-rays and increasing free-radical damage to residual tumors targeted by ionizing and non-ionizing radiation therapy
- L23 ANSWER 14 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Deficiency of antibody responses to T-independent antigens in gerbils-Meriones unguiculatus
- L23 ANSWER 15 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Expression of antibodies in mammalian cells
- L23 ANSWER 16 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Hair growth/maintenance compositions and methods involving the same
- L23 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Dextran Sulfate Inhibits IFN-γ-Induced Jak-Stat Pathway in Human Vascular Endothelial Cells
- L23 ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Adjuvant for enhancing the yield of antibodies in immunology
- L23 ANSWER 19 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI The uptake and expression of the factor VIII and reporter genes by vascular cells
- L23 ANSWER 20 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI A microtransfection method using the luciferase-encoding reporter gene for the assay of human immunodeficiency virus LTR promoter activity
- L23 ANSWER 21 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Polysaccharide-modified immunoglobulins having reduced immunogenic potential and unaltered or improved pharmacokinetics
- L23 ANSWER 22 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Determination of antigenic determinant group-containing compounds
- L23 ANSWER 23 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Selective alteration of the humoral response to $\alpha 1\text{--}3$ dextran and phosphorylcholine by early administration of monoclonal antiidiotype antibody
- L23 ANSWER 24 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Dextran derivatives in single and combination chemotherapy against transplantable mouse ascites and solid tumors
- L23 ANSWER 25 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Inhibition of the immunosuppressive activity of corticosteroids by polyanions

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L23 ANSWER 6 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
    Dextran from Leuconostoc mesenteroides augments immunostimulatory
TI
     effects by the introduction of phosphate groups
     The immunol. effects of phosphorylated dextran
AB
     (in which phosphate groups were chemical introduced) on murine
     splenocytes were examined When dextran produced by Leuconostoc
     mesenteroades was phosphorylated by a reaction with polyphosphoric acid in
     formamide solution for 48 h, the degree of phosphorylation of
     dextran was maximal. The highest phosphorus content (1.7%o,
     wt/wt) was observed in 40 kDa of dextran. The mitogenic response of murine
     splenocytes was enhanced by the phosphorylated dextran
     , but its activity was not related to its mol. weight A strong response was
     detected at a concentration of 10 to 500 \mu g/mL, and the highest activity was
     obtained 48 h after stimulation. Phosphorylated dextran
     was characterized as a B-cell-specific mitogen. The expressions of CD86
     on CD8\alpha-CD11c- and CD8\alpha-CD11c+ cells were augmented by
     phosphorylated dextran. The levels of mRNA expression of gamma interferon and interleukin-10 on murine splenocytes were also
     increased by the stimulation. These results demonstrate that dextran
     exerts immunostimulation by the introduction of phosphate
     groups.
     2004:731155 HCAPLUS <<LOGINID::20070914>>
AN
DN
     142:5362
TI
     Dextran from Leuconostoc mesenteroides augments immunostimulatory
     effects by the introduction of phosphate groups
ΑU
     Sato, Toshihiro; Nishimura-Uemura, Junko; Shimosato, Takeshi; Kawai,
     Yasushi; Kitazawa, Haruki; Saito, Tadao
     NOF Corporation, Shibuya-ku, Tokyo, 150-6019, Japan
CS
     Journal of Food Protection (2004), 67(8), 1719-1724
SO
     CODEN: JFPRDR; ISSN: 0362-028X
PB
     International Association for Food Protection
DT
     Journal
LA
     English
RE.CNT 28
              THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 7 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
L23
TI
     Phosphorylated dextran as immunopotentiator
     It is clarified that an immunopotentiation activity can be
AB
     imparted to dextran, which shows no immunol. activity, by chemical
     phosphorylating it. The phosphorylated dextran is a B
     cell mitogen, activates dendritic cells and induces IL-10 and IFN-y.
     Thus, it is expected as being effective in preventing infectious diseases
     and colitis and preventing allergic diseases by maintaining the Th1/2
     balance. Phosphorylated dextran was prepared from
     dextran and polyphosphoric acid, and its blastogenic effect on mouse
     spleen cells was examined
     ΑN
DN
     140:151931
TI
     Phosphorylated dextran as immunopotentiator
     Saito, Tadao; Kitazawa, Haruki
IN
     Meiji Dairies Corporation, Japan
PA
     PCT Int. Appl., 51 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     Japanese
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                           APPLICATION NO.
     WO 2004009099 A1
PΙ
                        A1 20040129 WO 2003-JP9324
                                                                  20030723
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
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             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                               JP 2003-50739
     JP 2004107316
                           Α
                                  20040408
                                                                       20030227
                                               AU 2003-252244
     AU 2003252244
                           A1
                                  20040209
                                                                       20030723
                                               EP 2003-765361
     EP 1543833
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                           A1
                                                                        20030723
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     US 2006154896
                           Al
                                  20060713
                                               US 2005-522047
                                                                       20051020
PRAI JP 2002-213305
                           Α
                                  20020723
     JP 2003-50739
                                  20030227
                           Α
     WO 2003-JP9324
                           W
                                  20030723
               THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 1
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
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- L23 ANSWER 9 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Phosphorylated sugar alcohols from basidiomycetes and dextran as antiviral drugs and health foods
- AB Phosphorylated sugar alcs. (including β -glucan)from basidiomycetes and dextran prepared by pretreatment with ZnCl2 and urea melting or enzyme method are claimed as antiviral drugs (e.g. against HIV1) and health foods.
- AN 2003:166958 HCAPLUS <<LOGINID::20070914>>
- DN 138:163508
- TI Phosphorylated sugar alcohols from basidiomycetes and dextran as antiviral drugs and health foods
- IN Akabane, Toru; Kitani, Yoshiyasu; Baba, Masanori; Tadano, Toshio
- PA Uma K. K., Japan
- SO Jpn. Kokai Tokkyo Koho, 4 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

	PATENT NO.		DATE	APPLICATION NO.	DATE	
ΡI	JP 2003063968	A	20030305	JP 2001-295057	20010823	
PRAI	JP 2001-295057		20010823			

- L23 ANSWER 13 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Apparatus and method to encapsulate, kill and remove malignancies, including selectively increasing absorption of x-rays and increasing free-radical damage to residual tumors targeted by ionizing and non-ionizing radiation therapy
- AB Methods for conducting an operation on a living organism are provided, including methods in which a channel is provided around a tissue of the organism, and an encapsulating composition is infused into the channel to encapsulate the tissue in a capsule. The capsule impedes materials encapsulated therein from migrating to other tissues outside the capsule. Also provided are apparatuses for performing methods of the invention. In addition, an improved method of radiation therapy, in which a locally persistent radiation enhancing agent, such as iron dextran or colloidal chromic phosphate P-32, is administered in or near a tissue to be treated, is provided. The methods and apparatuses are especially useful in the treatment and removal of tumors.
- AN 2002:309726 HCAPLUS <<LOGINID::20070914>>
- DN 136:306090
- TI Apparatus and method to encapsulate, kill and remove malignancies, including selectively increasing absorption of x-rays and increasing

free-radical damage to residual tumors targeted by ionizing and non-ionizing radiation therapy Carroll, Robert G. IN Oncology Innovations, Inc., USA PA U.S., 20 pp., Cont.-in-part of U.S. Ser. No. 195,056. SO CODEN: USXXAM DTPatent English LΑ FAN.CNT 2 PATENT NO. KIND DATE APPLICATION NO. -------------------------US 6375634 US 1999-286516 PΙ B1 20020423 19990406 20001012 WO 2000-US1280 WO 2000059422 A1 20000120 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG DE 10084445 T0 20020711 DE 2000-10084445 20000120 PRAI US 1997-66195P P 19971119 **A2** US 1998-195056 19981118 US 1999-286516 A 19990406 WO 2000-US1280 W 20000120 RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 24 OF 25 HCAPLUS COPYRIGHT 2007 ACS on STN L23 Dextran derivatives in single and combination chemotherapy against TI transplantable mouse ascites and solid tumors Dextran was modified by palmitoylation and/or phosphorylation to yield 3 ABderivs.:palmitoyldextran phosphate [63026-23-3] dextran phosphate [9041-77-4], and palmitoyldextran [63026-27-7]. Of these compds., only palmitoyldextran phosphate showed growth-inhibitory activity against Ehrlich solid tumor in mice. In combination therapy with mitomycin C [50-07-7], bleomycin [11056-06-7], cyclophosphamide [50-18-0], and 5-fluorouracil [51-21-8], palmitoyldextran phosphate manifested strong synergistic effects against both Sarcoma 180 ascites and L1210 leukemic tumors. The compound was not directly cytocidal against Sarcoma 180 ascites tumor, but it appeared to act via activation of peritoneal macrophage. The antitumor activity of palmitoyldextran phosphate apparently is mainly due to immunol. host-mediated mechanisms. 1977:593864 HCAPLUS <<LOGINID::20070914>> AN DN 87:193864 Dextran derivatives in single and combination chemotherapy against ΤI transplantable mouse ascites and solid tumors ΑU Suzuki, Masuko; Mikami, Takeshi; Kadowaki, Minoru; Matsumoto, Tatsuji; Suzuki, Shiqeo Dep. Microbiol., Tohoku Coll. Pharm., Sendai, Japan CS Cancer Research (1977), 37(9), 3448-54 SO CODEN: CNREA8; ISSN: 0008-5472 DT Journal LA English

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LOGINID: SSPTAEX01623

PASSWORD:

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FILE COVERS 1907 - 14 Sep 2007 VOL 147 ISS 13 FILE LAST UPDATED: 13 Sep 2007 (20070913/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (polyphosphate or polyphosphoric or pyrophosphate or pyrophosphoric)

15369 POLYPHOSPHATE

19361 POLYPHOSPHORIC

41316 PYROPHOSPHATE

2905 PYROPHOSPHORIC

L33 70529 (POLYPHOSPHATE OR POLYPHOSPHORIC OR PYROPHOSPHATE OR PYROPHOSPHO RIC)

=> s formamide or formaldehyde

23113 FORMAMIDE

149140 FORMALDEHYDE

L34 171538 FORMAMIDE OR FORMALDEHYDE

=> s 119 and 133

L35 10 L19 AND L33

=> s 119 and 134

L36 4 L19 AND L34

=> s 119 and 133 and 134

L37 2 L19 AND L33 AND L34

=> s 135 and (PY<2003 or AY<2003 or PRY<2003)

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L38 8 L35 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> s 136 and (PY<2003 or AY<2003 or PRY<2003)

22889908 PY<2003 4461769 AY<2003 3940427 PRY<2003

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22889908 PY<2003 4461769 AY<2003 3940427 PRY<2003

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

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ENTRY SESSION

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Sep 7, 2007 (20070907/UP).

=> d 138 1-8 ti

- L38 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Phosphorylated dextran as immunopotentiator
- L38 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Phosphorus-containing polymers for optical signal transducers

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

- L38 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Phosphorylated polyhydroxy compounds for tartar control
- L38 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI A reinvestigation of the phosphorlyation of dextran with polyphosphoric acid: evidence for the formation of different

types of phosphate moieties

US 2006154896

JP 2003-50739

PRAI JP 2002-213305

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ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
ΤI
    Interactions between dextran phosphates and human hemoglobin
    ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
L38
TI
    Evidence for the involvement of a glucose 6-phosphate carrier in
    microsomal glucose 6-phosphatase activity
L38
    ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TT
    Esters of polysaccharides with phosphoric acid and palmitric acid
L38
    ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
    Preparation and antitumor activity of O-palmitoyldextran phosphates,
ΤI
    O-palmitoyldextrans, and dextran phosphate
=> d 138 1 3 4 5 6 7 8 ti abs bib
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y) /N:y
L38
    ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
TI
    Phosphorylated dextran as immunopotentiator
AB
     It is clarified that an immunopotentiation activity can be imparted to
    dextran, which shows no immunol. activity, by chemical phosphorylating it.
    The phosphorylated dextran is a B cell mitogen,
     activates dendritic cells and induces IL-10 and IFN-\gamma. Thus, it is
    expected as being effective in preventing infectious diseases and colitis
    and preventing allergic diseases by maintaining the Th1/2 balance.
    Phosphorylated dextran was prepared from dextran and
    polyphosphoric acid, and its blastogenic effect on mouse spleen
    cells was examined
AN
    2004:80514 HCAPLUS <<LOGINID::20070914>>
DN
    140:151931
TI
    Phosphorylated dextran as immunopotentiator
IN
    Saito, Tadao; Kitazawa, Haruki
PA
    Meiji Dairies Corporation, Japan
SO
    PCT Int. Appl., 51 pp.
    CODEN: PIXXD2
DT
    Patent
LΑ
     Japanese
FAN.CNT 1
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     PATENT NO.
                      KIND
                               DATE
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ΡI
    WO 2004009099
                        A1
                               20040129 WO 2003-JP9324
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            LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH,
            PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT,
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US 2005-522047

20051020 <--

WO 2003-JP9324 W 20030723

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Phosphorylated polyhydroxy compounds for tartar control

AB An anticariogenic anticalculus dentifrice comprise an anticariogenic agent and an antitartar agent. The antitartar agent is formed by phosphorylation of a plyhydroxy compound with mol. weight ≤5000 kDa. The phosphorylated polyhydroxy compound has a molar substitution of ≤2 based on mol. weight of an average repeat unit in th starting polyhydroxy compound and possesses phosphate ester linkage satisfying at least 1 criteria of (a) ≥1 multi-substituted phosphate ester linked through an O to a single C of the polyhydroxy compound, and (b) ≥2 monophosphate groups separated by ≤ 3 C. Dextran (I) was added to a solution of polyphosphric acid, tri-N-butylamine, and N,N-dimethylforamide and heated to 120° for 6h, then it was poured into EtOH. Saturated NaCl solution was added to the above mixture to aid polymer precipitation followed by

purification and lyophilization of precipitate to obtain a white powder. Formulation

of a toothpaste containing the phosphorylated I is given.

AN 1993:197835 HCAPLUS <<LOGINID::20070914>>

DN 118:197835

- TI Phosphorylated polyhydroxy compounds for tartar control
- IN Spaltro, Suree Methmanus; Aronson, Michael Paul
- PA Unilever N. V., Neth.; Unilever PLC
- SO Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATEN	NT NO.	KIN	D DATE	APPLICATION NO.	DATE
ΡI	EP 51	12599	A2	19921111	EP 1992-201108	19920421 <
	EP 51	12599	A3	19930512		
	EP 51	12599	B1	19951220		
	F	R: AT, BE,	CH, DE,	DK, ES, FR,	GB, GR, IT, LI, NL,	PT, SE
	US 52	202111	A	19930413	US 1991-697835	19910509 <
	AT 13	31721	T	19960115	AT 1992-201108	19920421 <
	ES 20	082342	Т3	19960316	ES 1992-201108	19920421 <
PRAI	US 19	991-697835	A	19910509	<	

- L38 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI A reinvestigation of the phosphorlyation of dextran with polyphosphoric acid: evidence for the formation of different types of phosphate moieties
- AB The products of phosphorylation of dextran with polyphosphoric acid were re-investigated by gel filtration, potentiometric titration, and 31P NMR spectroscopy. Mainly (80-88%) alkyl phosphates were formed together with alkyl diphosphates and dialkyl phosphates, the percentages of which depended on the duration of phosphorylation. Mild acid treatment of the crude samples hydrolyzed the diphosphates and gave products with >95% of monophosphate structures.
- AN 1989:194996 HCAPLUS <<LOGINID::20070914>>
- DN 110:194996
- TI A reinvestigation of the phosphorlyation of dextran with polyphosphoric acid: evidence for the formation of different types of phosphate moieties
- AU Sacco, Daniel; Klett-Zygmunt, Daniele; Dellacherie, Edith
- CS Lab. Chim.-Phys. Macromol., CNRS, Nancy, 54042, Fr.
- SO Carbohydrate Research (1988), 184, 193-202 CODEN: CRBRAT; ISSN: 0008-6215
- DT Journal

- L38 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Interactions between dextran phosphates and human hemoglobin
- Dextran phosphates were prepared by direct phosphorylation of dextran of .hivin.Mw .simeq. 36,000 by means of polyphosphoric acid. This reaction gives rise to a mixture of structures containing at least 80-85% of diprotic monoesters such as ROPO3H2, the other structures being more complex in particular with crosslinking chains such as -OP(O)(OH)OP(O)(OH)-. These chains can be hydrolyzed in acidic conditions leading to polysaccharide derivs. containing phosphates essentially under the diprotic monoester form. These various compds., in the presence of Hb, provoke a decrease of its affinity for O and this effect increases with the phosphate substitution rate and with the amount of -OP(O)(OH)OP(O)(OH)- chains. The covalent fixation of these polyanionic dextrans onto Hb should lead to the oxygen-carrier conjugates with high mol. weight and low O affinity, useful in blood transfusion.
- AN 1988:443346 HCAPLUS <<LOGINID::20070914>>
- DN 109:43346
- TI Interactions between dextran phosphates and human hemoglobin
- AU Zygmunt, D.; Labrude, P.; Vigneron, C.; Sacco, D.; Dellacherie, E.
- CS Lab. Chim. Phys. Macromol., ENSIC, Nancy, 54042, Fr.
- SO Journal de Chimie Physique et de Physico-Chimie Biologique (1988), 85(2), 315-18 CODEN: JCPBAN; ISSN: 0021-7689
- DT Journal
- LA French
- L38 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Evidence for the involvement of a glucose 6-phosphate carrier in microsomal glucose 6-phosphatase activity
- AB Protease and diazobenzenesulfonate were used to probe the transverse topol. of the microsomal glucose 6-phosphatase system. Treatment of intact microsomes with these reagents under the conditions used did not affect the permeability of the membrane to mannose 6-phosphate, nucleoside diphosphatase, or dextran of 70,000 mol. weight Nor did these treatments inactivate the hydrolytic site of glucose 6-phosphatase, a finding in agreement with earlier conclusions that this site is on the inside of the membrane. On the other hand, treatment of intact microsomes with diazobenzenesulfonate or proteases inactivated (or increased the apparent Km of) some other component which was rate-limiting for glucose 6-phosphatase activity in intact but not in disrupted microsomes. The simplest explanation for this phenomenon is that there is a protein carrier in the microsomal membrane which transports glucose 6-phosphate from the medium to the lumen, where it is hydrolyzed, and that diazobenzenesulfonate and proteases attack this carrier. The lack of effect of these reagents on microsomal inorg. pyrophosphatase activity suggests that the glucose 6-phosphate carrier cannot transport pyrophosphate. Treatment of microsomes with NH3 broke down their permeability barrier but also removed significant amts. of microsomal phospholipid and inactivated a number of microsomal enzymes. It is not recommended as a general approach to altering microsomal permeability.
- AN 1978:184741 HCAPLUS <<LOGINID::20070914>>
- DN 88:184741
- TI Evidence for the involvement of a glucose 6-phosphate carrier in microsomal glucose 6-phosphatase activity
- AU Nilsson, Olle S.; Arion, William J.; Depierre, Joseph W.; Dallner, Gustav; Ernster, Lars
- CS Dep. Biochem., Univ. Stockholm, Stockholm, Swed.
- SO European Journal of Biochemistry (1978), 82(2), 627-34 CODEN: EJBCAI; ISSN: 0014-2956
- DT Journal
- LA English

- L38 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Esters of polysaccharides with phosphoric acid and palmitric acid
- Water-soluble polysaccharides are treated with palmitic acid halide and AB phosphorylation reagents in the presence of tertiary amine in formamide solvent to obtain polysaccharide phosphate palmitates. The products are effective in controlling tumor growth. Thus, 1 part dextran (mol. weight 40,000) was dissolved in 100 parts formamide and to this were added Bu3N 20 and palmitoyl chloride 5.0 parts. The mixture was heated at 70° for 2 h and to this was added 5 parts polyphosphate. The mixture was allowed to stand at room temperature for 24 h and to this was added 400 parts MeOH. The precipitate was collected, washed with MeOH, and suspended in water. The pH of the suspension was adjusted to 10 with 10% NaOH and centrifuged. The supernatant was treated with 400 parts MeOH. The precipitate was collected, washed with MeOH, and dried in vacuo to obtain a water-soluble fraction. The water-soluble fraction (1 part) was dissolved in water and worked up to yield an dextran phosphate palmitate [63026-23-3]. The compound contained sugars 46.3, P 2.3, and palmitic acid 47.8%.
- AN 1977:429017 HCAPLUS <<LOGINID::20070914>>
- DN 87:29017
- TI Esters of polysaccharides with phosphoric acid and palmitric acid
- IN Suzuki, Shigeo; Suzuki, Masuko; Mikami, Takeshi
- PA Kowa Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

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	PATENT NO.		DATE	APPLICATION NO.	DATE	
PI	JP 52028583	A	19770303	JP 1975-104626	19750829 <	
	JP 57056921	В	19821202			
PRAI	JP 1975-104626	A	19750829	<		

- L38 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Preparation and antitumor activity of O-palmitoyldextran phosphates, O-palmitoyldextrans, and dextran phosphate
- Three O-palmitoyldextran phosphates (PalDP) were prepared by esterification of dextran with palmitoyl chloride and polyphosphoric acid. One of the H2O-insol. PalDP showed 82% growth regression against sarcoma 183 ascites-tumor in mice when administered at 1 mg/kg/day for 5 days. The H2O-soluble PalDP showed 17% growth regression at the same dosage when administered alone and 83% when combined with mitomycin C. O-palmitoyldextrans and dextran phosphates were inactive in the inhibition of this ascites tumor. Thus, the existence of both fatty acid and phosphate groups is necessary to manifest antitumor activity in polysaccharides.
- AN 1977:406278 HCAPLUS <<LOGINID::20070914>>
- DN 87:6278
- TI Preparation and antitumor activity of O-palmitoyldextran phosphates, O-palmitoyldextrans, and dextran phosphate
- AU Suzuki, Masuko; Mikami, Takeshi; Matsumoto, Tatsuji; Suzuki, Shigeo
- CS Dep. Microbiol., Tohoku Coll. Pharm., Sendai, Japan
- SO Carbohydrate Research (1977), 53(2), 223-9 CODEN: CRBRAT; ISSN: 0008-6215
- DT Journal
- LA English